

DAFTAR PUSTAKA

- Adams, P., Barton, J., Guo, H., Alter, D., & Speechley, M. (2015). Serum Ferritin is A Biomarker for Liver Mortality in the Hemochromatosis and Iron Overload Screening Study. *Annals of Hepatology*, 1(14), 348–353.
- Al-Hakeim, H. K., Najm, A. H., Al-Dujaili, A. H., & Maes, M. (2020). Major Depression in Children with Transfusion-Dependent Thalassemia Is Strongly Associated with the Combined Effects of Blood Transfusion Rate, Iron Overload, and Increased Pro-inflammatory Cytokines. *Neurotoxicity Research*, 38(1), 228–241.
- Aleem, A., Shakoor, Z., Alsaleh, K., Algahtani, F., Iqbal, Z., & Al-Momen, A. (2014). Immunological evaluation of β -thalassemia major patients receiving oral iron chelator deferasirox. *Journal of the College of Physicians and Surgeons Pakistan*, 24(7), 467–471.
- Alyumnah, P., Ghazali, M., & Dalimoenthe, N. Z. (2016). Suspected Beta Thalassemia Minor Screening in Jatinangor High School Students. *Sistem Kesehatan*, 1(3), 133–138.
- American Diabetes Association. (2018). Standards of Medical Care in Diabetes-2018. *The Journal of Clinical and Applied Research and Education*, 41(Suppl 1), S13–S27.
- Anafje, M., Jaseb, K., & Yousefi, H. (2021). Association Between Serum Ferritin Level and Gene Mutations in Patients with Thalassemia Major and Intermediate. *Jundishapur Journal of Chronic Disease Care*, 10(1), 1–5.
- Andriastuti, M. (2011). Kebutuhan Transfusi Darah Pasca-Splenektomi pada Thalassemia Mayor. *Sari Pediatri*, 13(6), 244–249.
- Anggororini, D., Fadlyana, E., & Idjradinata, P. (2010). Korelasi Kadar Feritin Serum dengan Kematangan Seksual pada Anak Penyandang Thalassemia Mayor. *Maj Kedokt Indon*, 60(10), 462–567.
- Arsana, P. M., Rosandi, R., Manaf, A., Budhiarta, A., Permana, H., Sucipta, K. W., Lindarto, D., Adi, S., Pramono, B., Harbuwono, D. S., Shahab, Alwi., Sugiarto., Kamil, J., Purnomo, L. B., Yuwono, A., & Suhartono, T. (2015). *Panduan Pengelolaan Dislipidemia di Indonesia* (1st ed.). PB. PERKENI.
- Asadov, C. D. (2014). Immunologic Abnormalities in β -Thalassemia. *Journal of Blood Disorders & Transfusion*, 5(7), 1–5.
- Atwa, Z. T., & Abdel Wahed, W. Y. (2017). Transfusion transmitted infections in frequently transfused thalassemic children living in Fayoum Governorate,

- Egypt: Current prevalence and risk factors. *Journal of Infection and Public Health*, 10(6), 870–874.
- Aziz, N., Detls, R., Quint, J., Li, Q., Gjertson, D., & Butch, A. (2016). Stability of cytokines, chemokines and soluble activation markers in unprocessed blood stored under different conditions. *Physiology & Behavior*, 176(1), 139–148.
- Badan Pusat Statistika Kota Samarinda. (2016). *Samarinda dalam Angka 2016*. Samarinda. <https://doi.org/1102001.6472>
- Badan Pusat Statistika Kota Samarinda. (2021). *Hasil Sensus Penduduk 2020*. Samarinda. <https://samarindakota.bps.go.id/pressrelease/2021/01/26/101/hasil-sensus-penduduk-2020.html>
- Banchini, F., Cattaneo, G. M., & Capelli, P. (2021). Serum ferritin levels in inflammation: a retrospective comparative analysis between COVID-19 and emergency surgical non-COVID-19 patients. *World Journal of Emergency Surgery : WJES*, 16(1), 1-7.
- Bazi, A., Shahramian, I., Yaghoobi, H., Naderi, M., & Azizi, H. (2017). The Role of Immune System in Thalassemia Major: A Narrative Review. *Journal of Pediatrics Review*, 6(2), 1-8.
- Bejaoui, M., & Guirat, N. (2013). Beta Thalassemia Major in a Developing Country: Epidemiological, Clinical and Evolutionary Aspects. *Mediterranean Journal of Hematology and Infectious Diseases*, 5(1), 3–8.
- Brittenham, G. M. (2011). Iron-Chelating Therapy for Transfusional Iron Overload. *New England Journal of Medicine*, 364(15), 1475–1477.
- Cao, A., Moi, P., & Galanello, R. (2011). Recent Advances in β -Thalassemias. *Pediatric Reports*, 3(e17), 65–78.
- Capellini, MD, Cohen, A., Porter, J., Taher, A., & Viprakasit, V. (2014). Guidlines for The Management of Transfusion Dependent Thalassaemia (TDT). In MD Capellini, A. Cohen, J. Porter, A. Taher, & V. Viprakasit (Eds.) (pp. 210–223). Cyprus: Thalassaemia International Federation.
- Chaudhary, S., Dhawan, D., Bagali, P., Chaudhary, P., Chaudhary, A., Singh, S., & Vudathala, S. (2016). Compound heterozygous β^+ β^0 mutation of HBB gene leading to β -thalassemia major in a Gujarati family — A case study. *Molecular Genentics and Metabolism Report*, 7, 51–53.
- Chu, W. (2012). Tumor necrosis factor. *Cancer Letters*. 1-9.
- Danjou, F., Anni, F., Perseu, L., Satta, S., Dessì, C., Lai, M. E., Fortina. P., Devoto, M., & Galanello, R. (2012). Genetic modifiers of β -thalassemia

- and clinical severity as assessed by age at first transfusion. *Haematologica*, 97(7), 989–993.
- Dash, N. R., & Mohanty, B. (2015). Spectrum of Haemoglobinopathies At a Tertiary Care Hospital in Bhubaneswar, Orissa, India. *Journal of Evidence Based Medicine and Healthcare*, 2(34), 5101–5106.
- Dembic, Z. (2015). Cytokines Important for Growth and/or Development of Cells of the Immune System. In *The Cytokines of the Immune System* (pp. 263–281).
- tEghbali, A., Taherahmadi, H., Shahbazi, M., Bagheri, B., & Ebrahimi, L. (2014). Association between serum ferritin level, cardiac and hepatic T2* MRI in patients with major β -thalassemia. *Iran J Ped Hematol Oncol*, 4(1), 17–21.
- El-Rasheidy, F. H., Essa, E. S., Mahmoud, A. A. S., & Nada, A. E. W. A. A. (2016). Elevated serum adiponectin is related to elevated serum ferritin and interleukin-6 in β -thalassaemia major children. *Journal of Pediatric Endocrinology and Metabolism*, 29(8), 953–958.
- Eleftheriou, A., & Angastiniotis, M. (2014). *Beta (β) Thalassaemia Alpha (α) Thalassaemia Sick Cell Disorders Haemoglobin Disorders (Haemoglobinopathies)*. Nicosia, Cyprus: Thalassaemia International Federation.
- Elmi. (2017). *Hubungan Polimorfisme Gen Globin β dengan Derajat Keparahan Manifestasi Klinis Thalassemia β pada Suku Melayu Riau*. (S3), Disertasi, Universitas Andalas, Padang.
- Fadhil, R. kareem, Mohammed, H. Q., & Faraj, S. A. (2017). Evaluation of Cellular Immunity for β -Thalassaemia Major Patients in Wasit Thalassaemia Center CENTER. *Micro Biology, Genetics and Monocular Biology Research*, 3(2), 1–8.
- Feizi, A., Kazemnejad, A., Hosseini, M., Parsa-yekta, Z., & Jamali, J. (2011). Assessing Awareness Level about Warning Signs of Cancer and its Determinants in an Iranian General Population Assessing Awareness Level about Warning Signs of Cancer and its Determinants in an Iranian General Population. *Journal of Health Population and Nutrition*, 29(6), 656–659.
- Fekri, K., Asadpour, N., Hamidi, M., & Karimian, M. (2018). Correlation between Ferritin and Iron Overload in Heart and Liver in Beta-Thalassaemia Major Patients in Shahrekord. *National Journal of Laboratory Medicine*, 7(3), IO07-IO11.
- Fianza, P. I., Rahmawati, A., Widiastha, S. H., Afifah, S., Ghazali, M., Indrajaya, A., Marayuzan, D., Pratama, A., Prasetya, D., Sihite, T. A.,

- Syamsunarno, M. R. A. A., Setiabudi, D., Fucharoen, S., & Panigoro, R. (2021). Iron Overload in Transfusion-Dependent Indonesian Thalassemic Patients. *Hindawi*, 2021, 1–8.
- Fibach, E., & Rachmilewitz, E. A. (2017). Pathophysiology and treatment of patients with beta-thalassemia - an update. *F1000Research*, 6, 1-12.
- Finotti, A., Breda, L., Lederer, C. W., Zuccato, C., Klantheous, M., Rivella, S., & Gambari, R. (2015). Recent trends in the gene therapy of β -thalassemia. *Blood Medicine*, 6, 69-85.
- Forget, B. G., Bunn, H. F., Nienhuis, A. W., Nathan, D. G., Nienhuis, A. W., Persons, D. A., Gibbons, R. J., Lucarelli, G., Isgrò, A., Sodani, P., Thom, C. S., Dickson, C. F., & David, A. (2013). Classification of the Disorders of Hemoglobin Classification of the Disorders of Hemoglobin. *Cold Spring Harbor Perspectives in Medicine*, 1–12.
- Fucharoen, S., & Weatherall, D. J. (2012). The Hemoglobin E Thalassemias. *Cold Spring Harbor Perspectives in Medicine*. 2, 1-15.
- Fucharoen, S., & Winichagoon, P. (2011). Haemoglobinopathies in Southeast Asia. *Indian J Med Res*, 134(October), 498–506.
- Galanello, R., & Origa, R. (2010). Beta-thalassemia. *Orphanet Journal of Rare Diseases*, 5(1), 1–15.
- Ganz, T. (2017). Iron and infection. *International Journal of Hematology*, 107(1), 7–15.
- Ganz, T., & Nemeth, E. (2012). Iron metabolism: Interactions with normal and disordered erythropoiesis. *Cold Spring Harbor Perspectives in Medicine*, 2(5), 1-13.
- Gerlach, B., Cordier, S. M., Schmukle, A. C., Emmerich, C. H., Rieser, E., Haas, T. L., Liu, Y. F., Amariglio, N., Rechavi, G., Rachmilewitz, E. A., Breuer, W., Cabantchik, Z. I., Wrighting, D. M., Andrews, N. C., De Sousa, M., Giardina, P. J., Grady, R. W., & Walczak, H. (2011). Linear ubiquitination prevents inflammation and regulates immune signalling. *Nature*, 471(7340), 591–596.
- Giardine, B., Borg, J., Viennas, E., Pavlidis, C., Moradkhani, K., Joly, P., Bartsakoulia, M., Riemer, C., Miller, W., Tzimas, G., Wajcman, H., Hardison, R. C., & Patrinos, G. P. (2014). Updates of the HbVar database of human hemoglobin variants and thalassemia mutations, 42(142200), 1063–1069.
- Gong, Y., Liang, S., Zeng, L., Ni, Y., Zhou, S., & Yuan, X. (2019). Effects of blood sample handling procedures on measurable interleukin 6 in plasma

- and serum. *Journal of Clinical Laboratory Analysis*, 33(7), 1–7.
- Gupta, R., Musallam, K. M., Taher, A. T., & Rivella, S. (2018). Ineffective Erythropoiesis: Anemia and Iron Overload. *Hematology/Oncology Clinics of North America*, 32(2), 213–221.
- Gustiana, H., Gunantara, T., & Rathomi, H. S. (2020). Kepatuhan Konsumsi Obat Kelasi Besi dan Kadar Serum Feritin Pasien Talasemia Beta-Mayor di RSUD Al-Ihsan Bandung. *Integrasi Kesehatan & Sains*, 2(1), 26–30.
- Hao, Z., Tiansheng, S., Zhi, L., Jianzheng, Z., Xiaowei, W., & Jia, L. (2014). Hip Fracture Aggravates Systemic Inflammation and Lung Injury in Aged Chronic Cigarette Smoke Exposed Rats. *Orthopaedic Research*, (5), 24–30.
- Hashizume, M., & Mihara, M. (2011). The Roles of Interleukin-6 in the Pathogenesis of Rheumatoid Arthritis. *Arthritis*, 1–8.
- Hasoon, I. G., Shani, W. S., & Radi, A. M. (2020). The association of hepcidin with some inflammatory markers in β -thalassemia major patients of Basrah Province, *EurAsian Journal of BioSciences*, 14(March), 7285–7289.
- Hassan, T., Zakaria, M., Fathy, M., Arafa, M., El Gebaly, S., Emam, A., Abdel, W. A., Shehab, M., Salah, H., Malek, M., & El Gerby, K. (2018). Association between genotype and disease complications in Egyptian patients with beta thalassemia: A Cross-sectional study. *Scientific Reports*, 8(1), 1–10.
- Higgs, D. R., Engel, J. D., & Stamatoyannopoulos, G. (2012). Thalassaemia. *The Lancet*, 379(january), 373–383.
- Hoffbrand, A. V., Taher, A., & Cappellini, M. D. (2012). How I treat transfusional iron overload. *Blood*, 120(18), 3657–3669.
- Hoffman, R., Silberstein, L. E., Heslop, H., & Weitz, J. (2013). *Hematology: Basic Principle and Practice*. Philadelphia, USA: Sauders/Elsevier.
- Honig, G. R., & Adams, J. G. (2012). *Human Hematology Genetics*: Springer Vienna, Italia.
- Huang, J. wei, Shang, X., Zhao, Y., Cai, R., Zhang, X.-H., Wei, X.-F., Xiong, F., & Xu, X.-M. (2013). A novel fusion gene and a common $\alpha 0$ -thalassemia deletion cause hemoglobin H disease in a Chinese family. *Blood Cells, Molecules and Diseases*, 1–4.
- Imani, M. M., Sadeghi, M., Khazaie, H., & Emami, M. (2020). Serum and Plasma Tumor Necrosis Factor Alpha Levels in Individuals with Obstructive Sleep

Apnea Syndrome: A Meta-Analysis and Meta-Regression, 1–25.

- Inati, A., Noureldine, M. A., Mansour, A., & Abbas, H. A. (2014). Endocrine and Bone Complications in β -Thalassemia Intermedia: Current Understanding and Treatment. *BioMed Research International*, 1–9.
- Iyer, S., Sakhare, S., Sengupta, C., & Velumani, A. (2015). Hemoglobinopathy in India. *Clinica Chimica Acta*, 444, 229–233.
- Jameel, T., Baig, M., Ahmed, I., & Hussain, M. B. (2017). Differentiation of beta thalassemia trait from iron deficiency anemia by hematological indices. *Pakistan Journal of Medical Sciences*, 33(3), 665–669.
- Jatavan, P., Chattipakorn, N., & Tongsong, T. (2017). Fetal Hemoglobin Bart's Hydrops Fetalis: Pathophysiology, Prenatal Diagnosis and Possibility of Intrauterine Treatment. *Maternal-Fetal & Neonatal Medicine*, 1-29.
- Kanamori, Y., Murakami, M., & Sugiyama, M. (2019). Hecpidin and IL-1 β , 110, 143–156.
- Karimi, M., Cohan, N., De Sanctis, V., Mallat, N. S., & Taher, A. (2014). Guidelines for diagnosis and management of beta-thalassemia intermedia. *Pediatric Hematology and Oncology*, 31(7), 583–596.
- Karimi, M., Cohan, N., Sanctis, V. De, Mallat, N. S., & Taher, A. (2014). Guidelines for Diagnosis and Management of Beta-Thalassemia Intermedia. *Pediatric Hematology and Oncology*, 31(May), 583–596.
- KDIGO. (2013). KDIGO 2012 Clinical Practice Guideline for the Evaluation and Management of Chronic Kidney Disease. *Kidney International Supplements*, 3(1), 5–14.
- Kementerian Kesehatan Republik Indonesia. (2018a). Hari thalasemia sedunia 2018: bersama untuk masa depan yang lebih baik. *Kemendes RI*, <http://www.depkes.go.id/article/view/180508000002/hari-thalasemia-sedunia-2018-bersama-untuk-masa-depan-yang-lebih-baik-.html>
- Kementerian Kesehatan Republik Indonesia. (2018b). Pedoman Nasional Pelayanan Kedokteran Tata Laksana Thalasemia, Jakarta.
- Keshk, W. A., Hablas, N. M., Esheba, N. E. S., & Abd Elsalam, S. A. (2019). Crosstalk between cytokine profile, redox, and iron status in β -Thalassemia: relation to frequency/duration of blood transfusion. *Pediatric Hematology and Oncology*, 36(3), 151–160.
- Keystone, E., & Omair, M. A. (2015). Interleukin-6 inhibition. In M. C. Hochberg, A. J. Silman, Josef S. Smolen, Michael E. Weinblatt, & M. H. Weisman (Eds.), *Rheumatology* (6th Editio, pp. 485–491).

- Khan, M. I., Khan, H. N., & Usman, M. (2018). Beta Thalassemia Trait; Diagnostic Importance of Hematological Indices in Detecting Beta Thalassemia Trait Patients. *The Professional Medical Journal*, 25(4), 545–550.
- Kheansaard, W., Phongpao, K., Paiboonsukw, K., Pattanapanyasat, K., Chaichompoo, P., & Svasti, S. (2018). Microparticles from β -thalassaemia/HbE patients induce endothelial cell dysfunction, *Scientific Reports*. 8(13033), 1–11.
- Kountouris, P., Lederer, C. W., Fanis, P., Feleki, X., Old, J., & Kleanthous, M. (2014). IthaGenes: An interactive database for haemoglobin variations and epidemiology. *PLoS ONE*, 9(7), 1-10.
- Krittayaphong, R., Viprakasit, V., Saiviroonporn, P., Wangworatrakul, W., & Wood, J. c. (2017). Serum Ferritin in The Diagnosis of Cardiac and Liver Iron Overload in Thalassaemia Patients Real-World Practice: A Multicentre Study. *British Journal of Haematology*, 182(2), 301–305.
- Kumawat, A. K., Sharma, R., Khinchi, M., & Soni, H. (2017). Thalassemia: A Review. *Asian Journal of Pharmaceutical Research and Development*, 5(2), 1–8.
- Kuswanti, I. (2014). *Asuhan Kehamilan*. Yogyakarta: Pustaka Pelajar.
- Lal, A. (2019). Iron in Health and Disease: An Update. *Indian Journal of Pediatrics*, 87(1), 58–65.
- Lama, R., Yusof, W., Shrestha, T. R., Hanafi, S., Bhattarai, M., Hassan, R., & Alwi, B. (2021). Prevalence and distribution of major β -thalassemia mutations and HbE / β -thalassemia variant in Nepalese ethnic groups. *Hematology/Oncology and Stem Cell Therapy*.
- Lee, J., Taneja, V., & Vasallo, R. (2012). Cigarette Smoking and Inflammation : Cellular and Molecular Mechanisms. *Dental Research*, 91(2), 142–149.
- Leecharoenkiat, K., Lithanatudom, P., Sornjai, W., & Smith, D. R. (2016). Iron dysregulation in beta-thalassemia. *Asian Pacific Journal of Tropical Medicine*, 9(11), 1035–1043.
- Lestari, E. D., Nur, F. T., & Salimo, H. (2016). Hubungan Kadar C-Reactive Protein dan Kadar Feritin Serum pada Gizi Kurang Usia 7-9 Tahun. *Sari Pediatri*, 13(4), 275-279.
- Mankhemthong, K., Phusua, A., Suanta, S., Srisittipoj, P., Charoenkwan, P., & Sanguansermisri, T. (2019). Molecular characteristics of thalassemia and hemoglobin variants in prenatal diagnosis program in northern Thailand. *International Journal of Hematology*, 110(4), 474–481.

- Marnis, D., Indriati, G., & Nauli, F. A. (2018). Hubungan Tingkat Pengetahuan dengan Kualitas Hidup Anak Thalasemia. *Keperawatan Sriwijaya*, 5(2), 31–42.
- Martiningsih, & Haris, A. (2019). Risiko Penyakit Kardiovaskuler pada Peserta Program Pengelolaan Penyakit Krosnis (Prolanis) di Puskesmas Kota Bima: Korelasinya dengan Ankle Brachial Index dan Obesitas. *Keperawatan Indonesia*, 22(3), 200–208.
- Maskoen, A. M., Reniarti, L., Sahiratmadja, E., Sisca, J., & Effendi, S. H. (2019). Shine & Lal index as a predictor for early detection of β -thalassemia carriers in a limited resource area in Bandung, Indonesia, *BMC Medical Genetics*, 20(136), 1–6.
- Mettananda, S., Gibbons, R. J., & Higgs, D. R. (2015). A-Globin As a Molecular Target in the Treatment of B-Thalassemia. *Blood*, 125(24), 3694–3701.
- Mishra, A. K., & Tiwari, A. (2013). Iron Overload in Beta Thalassaemia Major and Intermedia Patients. *Medica a Journal of Clinical Medicine*, 8(4), 328–332.
- Mousavi, Z., Yazdani, Z., Moradabadi, A., Hoseinpourkashgari, F., & Hassanshahi, G. (2019). Role of some members of chemokine/cytokine network in the pathogenesis of thalassemia and sickle cell hemoglobinopathies: A mini review. *Experimental Hematology and Oncology*, 8(1), 4–9.
- Musallam, K. M., Taher, A. T., & Rachmilewitz, E. A. (2012). β -Thalassemia Intermedia : A Clinical Perspective. *Cold Spring Harbor Perspectives in Medicine*, 1–16.
- Naseem, S., Iqbal, R., & Munir, T. (2016). Role of Interleukin-6 in Immunity : A Review. *International Journal of Life Sciences Research*, 4(2), 268–274.
- Noori, Noor Mohammad, Moghadam, M. M., & Teimouri, A. (2019). TNF- α , Interleukin-6, NT-Pro BNP Correlation with Echocardiography Findings in Patients with Thalassemia. *Pak Heart J*, 52(01), 14–26.
- Noori, Noor Mohammand, Shahramian, I., Teimouri, A., Keyvani, B., & Mahjoubifard, M. (2017). Serum Levels of Tumor Necrosis Factor- α and Interleukins in Children with Congenital Heart Disease. *Tehran University Heart Center*, 12(1), 15–22.
- Origa, R. (2016). β -Thalassemia. *Genetics in Medicine*, 1–11.
- Orkin, S. H., Nathan, D. G., Ginsburg, D., Look, A. T., Fisher, D. E., & Lux, S. (2014). *Nathan and Oski's Hematology and Oncology of Infancy and Childhood*. Expert Consult ; Online: Elsevier Health Science. New York, USA.

- P2PTM Kemenkes RI. (2019). Hari Talasemia Sedunia 2019 : Putuskan Mata Rantai Talasemia Mayor. 8 Mei, 2–5. <http://www.p2ptm.kemkes.go.id/kegiatan-p2ptm/subdit-penyakit-kanker-dan-kelainan-darah/peringatan-hari-thalassemia-sedunia-2017>
- Panawala, L., & Between, D. (2017). What is the Function of Hemoglobin in the Human Body, <https://www.researchgate.net/publication/313841668> Diakses pada tanggal 4 Juli 2020.
- Perera, S., Allen, A., Silva, I., Hapugoda, M., Wickramaratne, M. N., Wijesiriwardena, I., Allen, S., Rees, D., Efremov, D. G., Christopher, A. F., Weatherall, D. J., & Premawardhena, A. (2019). Genotype-phenotype association analysis identifies the role of α globin genes in modulating disease severity of β thalassaemia intermedia in Sri Lanka, *Scientific Reports*, 9(10116), 1–9.
- Piel, F., & Weatherall, D. J. (2014). The α -Thalassemias. *The New Journal of Medicine*. 371(20), 1908-1916.
- Pramono. (2013). Penyelenggaraan Transmigrasi di Kalimantan Timur. Dinas Tenaga Kerja dan Transmigrasi Provinsi Kalimantan Timur.
- Pinto, V. M., & Forni, G. L. (2020). Molecular Sciences Management of Iron Overload in Beta-Thalassemia Patients: Clinical Practice Update Based on Case Series. *Molecular Sciences*, 21(8771), 1–20.
- Pratiwi, A., Sawitri, E., & Supit, D. (2018). Gambaran status thalasemia anak di RSUD Abdul Wahab Sjahranie Samarinda periode 2014-2016. *Kedokteran Mulawarman*, 4(1), 50–58.
- Prawira, V., & Hendrianingtyas, M. (2018). Hubungan ferritin dan jumlah leukosit dengan kadar TSH pada pasien talasemia dengan transfusi. *Media Medika Muda*, 3(April), 1–4.
- Puliyel, M., Sposto, R., Berdoukas, V. A., Hofstra, T. C., Nord, A., Carson, S., Wood, J., Coates, T. D. (2014). Ferritin trends do not predict changes in total body iron in patients with transfusional iron overload. *American Journal of Hematology*, 89(4), 391–394.
- Purwaningtyas, R. (2010). *Hubungan antara Kadar Feritin dengan Gangguan Fungsi Jantung Diastolik dan Sistolik pada Penderita Talasemia Anak*. (S2), Tesis, Universitas Sebelas Maret, Surakarta.
- Putri, D. M., Oenzil, F., & Efrida. (2015). Gambaran Status Gizi Anak Talasemia β Mayor di RSUP Dr. M. Djamil Padang. *Kesehatan Andalas*, 4(3), 803–807.
- Qazi, R. A., Shams, R., Hassan, H., & Asif, N. (2014). Screening for Beta

- Thalassemia Trait. *Journal of Rawalpindi Medical College*, 18(1), 158–160.
- Rachmilewitz, E. A., & Giardina, P. J. (2011). How I treat thalassemia. *Blood*, 118(13), 3479–3488.
- Ramos, P., Casu, C., Gardenghi, S., Breda, L., Crielgaard, B. J., Guy, E., Marongiu, M. F., Gupta, R., Levine, R. L., Abdel-Wahab, O., Ebert, B. L., Van Rooijen, N., Ghaffari, S., Grady, R., W. Giardina, P. J., & Rivella, S. (2013). Macrophages support pathological erythropoiesis in polycythemia vera and β -thalassemia. *Nature Medicine*, 19(4), 437–445.
- Rashdan, M. (2015). *Study of DNA Molecular Analysis and Biochemical Markers from Non-Invasive Samples in Beta-Thalassaemia Major Patients*. (S3), Disertasi, University of Malaya, Kuala Lumpur.
- Ravussin, E., & Smith, S. R. (2016). Role of the Adipocyte in Metabolism and Endocrine Function. In *Endocrinology: Adult and Pediatric, 2-Volume Set* (Seventh Ed, pp. 627–647). Elsevier Inc.
- Razi, F. (2017). *Hubungan antara Kadar Ferritin Serum dan Kadar IL-6 pada Pasien Thalassemia*. (S2), Tesis, Universitas Airlangga, Surabaya.
- Rea, I. M., Gibson, D., McGilligan, V., McNerlan, S., Alexander, H. D., & Ross, O. A. (2018). Age and Age-Related Diseases: Role of Inflammation Triggers and Cytokines. *Frontiers in Immunology*, 9(586), 1–28.
- Rejeki, D. S. S., Nurhayati, N., & Elva, S. (2012). Descriptive Study on Thalassemia. *Kesehatan Masyarakat Nasional*, 7(3), 139–144.
- Ribeil, J. A., Arlet, J. B., Dussiot, M., Cruz Moura, I., Courtois, G., & Hermine, O. (2013). Ineffective erythropoiesis in β -thalassemia. *The Scientific World Journal*, 2013, 1–11.
- Rizka. (2019). Kebudayaan Kalimantan Timur, dari Suku hingga Adat. <https://www.indozone.id/news/d5s9DA/kebudayaan-kalimantan-timur-yang-beragam/read-all>. Diakses pada tanggal 12 Maret 2021.
- Rochman, F., Mulyantari, N. K., & Sutirtayasa, I. W. (2019). Hubungan Jumlah Transfusi Darah dan Penggunaan Kelasi Besi dengan Kadar Feritin pada Pasien Talasemia. *Medika Udayana*, 8(9), 1-6.
- Rujito, L. (2015). *Hubungan Mutasi Gen Hemoglobin Beta (HBB) dan Pemodifikasi Genetik XmnI, BCL11A, dan HBS1L-MYB Terhadap Fenotip Thalassemia β* . (S3), Disertasi, Universitas Gajah Mada, Yogyakarta.
- Rujito, L. (2019). *Buku Referensi Talasemia: Genetik Dasar dan Pengelolaan Terkini*. (W. Siswandari & D. W. D. Lestari, Eds.) (1st ed.). UNSOED

press.

- Rujito, L., Basalamah, M., Mulatsih, S., & Sofro, A. S. M. (2015). Molecular Scanning of β -Thalassemia in the Southern Region of Central Java, Indonesia; a Step Towards a Local Prevention Program. *Hemoglobin*, 39(5), 330–333.
- Safitri, R., Ernawaty, J., & Karim, D. (2015). Hubungan Kepatuhan Transfusi dan Konsumsi Kelasi Besi terhadap Pertumbuhan Anak dengan Thalassemia. *Online Mahasiswa*, 2(2), 1474–1483.
- Sahoo, S. S., Biswal, S., & Dixit, M. (2014). Distinctive Mutation Spectrum of the HBB Gene in an Urban Eastern, *Hemoglobin*, 38(1), 33–38.
- Sanctis, V. De, Kattamis, C., Canatan, D., Soliman, A. T., Elsedfy, H., Karimi, M., Daar, S., Wali, Y., Yassin, M., Soliman, N., Sobti, P., Jaouni, S., Kholy, M. E., Fiscina, B., & Angastiniotis, M. (2017). β -thalassemia distribution in the old world: An ancient disease seen from a historical standpoint. *Mediterranean Journal of Hematology and Infectious Diseases*, 9(1), 1-14.
- Sari, D. M., Bahar, E., & Sari, D. P. (2016). Akurasi Kadar Ferritin Serum dan Saturasi Transferin dalam Memprediksi Laju Pertumbuhan Pasien Thalassemia Mayor. *Sari Pedriatri*, 18(2), 87–92.
- Sari, T. (2016). Seng dan Respons Imun pada Talasemia. *Sari Pedriatri*, 18(2), 157-163.
- Sari, T. T., Gatot, D., Akib, A. A. P., Bardosono, S., Hadinegoro, S. R. S., Harahap, A. R., & Idjradinata, P. S. (2014). Immune response of thalassemia major patients in Indonesia with and without splenectomy. *Acta Medica Indonesiana*, 46(3), 217–225.
- Satria, A., Ridar, E., & Tampubolon, L. (2016). Hubungan Derajat Klinis dengan Kadar Feritin Penyandang Thalassemia beta di RSUD Arifin Achmad. *JOM FK*, 3(2), 1–9.
- Scheller, J., Chalaris, A., Schmidt-Arras, D., & Rose-John, S. (2011). The pro- and anti-inflammatory properties of the cytokine interleukin-6. *Biochimica et Biophysica Acta - Molecular Cell Research*, 1813(5), 878–888.
- Shanab, A. A. M., El-Desouky, M. A., Kholoussi, N., El-Kamah, G., & Fahmi, A. A. (2015). Evaluation of neopterin as a prognostic factor in patients with beta-thalassemia, in comparison with cytokines and immunoglobulins. *Archives of Hellenic Medicine*, 32(1), 60–65.
- Shawky, R. M., & Kamal, T. M. (2015). Thalassemia intermedia : An overview. *Egyptian Journal of Medical Human Genetics*, 13(3), 245–255.

- Shirzadfar, H., & Mokhtari, N. (2018). Advancements in Critical Review on Thalassemia : Types , Symptoms and Treatment. *Advancements Bioequiv Availab*, 1(2), 15–18.
- Simpson, S., Kaislasuo, J., Guller, S., & Pal, L. (2020). Cytokine Thermal stability of cytokines : A review, *Cytikine*, 125(March 2019), 1-21.
- Siriwardana, R. C., Niriella, M. A., Dassanayake, A., Ediriweera, Di., Gunetilleke, B., Sivasundaram, T., & De Silva, J. (2017). Association of Serum Ferritin with Diabetes and Alcohol in Patients with Non-Viral Liver Disease-Related Hepatocellular Carcinoma. *Liver Cancer*, 6(4), 307–312.
- Sofa, I. M. (2018). Kejadian Obesitas, Obesitas Sentral, dan Kelebihan Lemak Viseral pada Lansia Wanita. *Amerta Nutrition*, 2(3)228–236.
- Sotianingsih, Charles AS, & Ita M. (2018). Skrining Thalassemia Pada Suku Anak Dalam Di Provinsi Jambi. *JMJ*, 6(2), 159–164.
- Sripichai, O., Makarasara, W., Munkongdee, T., Kumkhaek, C., Nuchprayoon, I., Chuansumrit, A., Chantrakoon, N., Boonmongkol, P., Winichagoon, P., Fucharoen, S. (2008). A scoring system for the classification of b-thalassemia/HbE disease severity. *American Journal of Hematology*, 83(January), 482–484.
- Steen, E. H., Wang, X., Balaji, S., Butte, M. J., Bollyky, P. L., & Keswani, S. G. (2019). The Role of the Anti-Inflammatory Cytokine Interleukin-10 in Tissue Fibrosis. *Advances in Wound Care*, 1–15.
- Supit, I. A., Pangemanan, D. H. C., & Marunduh, S. R. (2015). Profil Tumor Necrosis (TNF- α) Berdasarkan Indeks Massa Tubuh (IMT) pada Mahasiswa Fakultas Kedokteran UNSRAT Angkatan 2014. *E-Biomedik*, 3(2), 640–643.
- Suryani, E., & Wahyudiani, K. N. (2015). Identifikasi Anemia Thalassemia Beta (β) Mayor Berdasarkan Morfologi Sel Darah Merah. *Scientific Journal of Informatics*, 2(1), 15–28.
- Susantiningsih, T., & Mustofa, S. (2018). Ekspresi IL-6 dan TNF- α Pada Obesitas. *JK Unila*, 2(2), 174–180.
- Susanto, Z. (2019). *Hubungan Mutasi Gen Hemoglobin Beta Dengan Derajat Klinis dan Hematologis Pada Pasien Thalassemia di Kota Samarinda Kalimantan Timur*. (S2), Tesis. Universitas Jendral Soedirman, Purwokerto.
- Suwarto, S. (2019). Penyakit Tropik dan Infeksi pada Abad 21: Apakah Masih Relevan? *Penyakit Dalam Indonesia*, 1(2), 77–78.

- Taher, A. T., Porter, J., Viprakasit, V., Kattamis, A., Chuncharunee, S., Sutcharitchan, P., Siritanaratkul, N., Galanello, R., Karakas, Z., Lawniczek, T., Ros, J., & Zhang, Y. (2012). Deferasirox reduces iron overload significantly in nontransfusion-dependent thalassemia: 1-year results from a prospective, randomized, double-blind, placebo-controlled study, *Blood*, 120(5), 970–978.
- Taher, A. T., & Saliba, A. N. (2017). Iron overload in thalassemia: different organs at different rates. *American Society of Hematology*, 265–271.
- Taher, A. T., Weatherall, D. J., & Cappellini, M. D. (2018). Thalassaemia. *The Lancet*, 391(10116), 155–167.
- Tanaka, T., Narazaki, M., & Kishimoto, T. (2014). Il-6 in inflammation, Immunity, And disease. *Cold Spring Harbor Perspectives in Biology*, 6(10), 1–16.
- Tania, P. O. A., Simamora, D., Parmasari, W. D., & Rahmawati, F. (2014). Kadar Interleukin 6 (IL-6) Sebagai Indikator Progresivits Penyakit Reumatoid Arthritis (RA). *Ilmiah Kedokteran*, 3(1), 40–47.
- Tanyong, D. I., Panichob, P., Kheansaard, W., & Fucharoen, S. (2015). Effect of Tumor Necrosis Factor-Alpha on Erythropoietinand Erythropoietin Receptor-Induced Erythroid Progenitor Cell Proliferation in β -Thalassemia/Hemoglobin E Patients. *Turkish Journal of Hematology*, 32(4), 304–310.
- Thalassaemia International Federation. (2014). *Guidelines for the management of transfusion dependent thalassaemia (TDT)* (3rd ed. Vol.3). Nicossia, Cyprus: Thalassaemia International Federation Publisher.
- Thein, S. L. (2013). The Molecular Basis of β -Thalassemia. *Cold Spring Harbor Perspectives in Medicine*, 3, 1–24.
- Thein, S. L. (2018). Molecular basis of β thalassemia and potential therapeutic targets. *Blood Cells, Molecules, and Diseases*, 70(May), 54–65.
- Valaei, A., Karimipoor, M., Kordafshari, A., & Zeinali, S. (2018). Molecular Basis of α -Thalassemia in Iran. *Irianan Biomedical Journal*, 22(1), 6–14.
- Varfolomeev, E., Goncharov, T., Maecker, H., Zobel, K., Kömüves, L. G., Deshayes, K., & Vucic, D. (2012). Cell biology: Cellular inhibitors of apoptosis are global regulators of NF- κ B and MAPK activation by members of the TNF family of receptors. *Science Signaling*, 5(216), 1–12.
- Vasseur, C., Domingues, E., Ledudal, K., Corvoisier, L., Barau, C., & Rialland, A. (2017). Red blood cells free α -haemoglobin pool: a biomarker to monitor the β -thalassemia intermedia variability. *The ALPHAPOOL*

- study, *British Journal of Haematology*, 179, 142–153.
- Viprakasit, V., Origa, R., & Fucharoen, S. (2014). Genetic Basic, Pathophysiology, and Diagnosis. In M. Cappellini, A. Cohen, & J. Porter (Eds.), *Guidelines for the Management of Transfusion Dependent Thalassaemia (TDT) (Vol 3)*. Nicossia, Cyprus: Thalassaemia International Federation Publisher.
- Voskou. (2015). Oxidative stress in β -thalassaemia and sickle cell disease. *Redox Biology*, 6, 226–239.
- Wahidiyat, P. A., & Adnani, N. B. (2016). Transfusi Rasional pada Anak. *Sari Pediatri*, 18(71), 325–331.
- Wardah. (2018). Pelayanan darah di Indonesia. *InfoDATIN Kementerian Kesehatan RI*, pp. 1–11.
- Wati, E. K., Proverawati, A., & Purnamasari, D. U. (2015). Tingkat Asupan Zat Gizi dan Status Gizi Penderita Thalassemia di Kabupaten Banyumas. *KesmasIndo*, 7(2), 153–166.
- Wei, Z., Yang, G., Huang, Y., Peng, P., Long, L., Long, Y., Huang, X., Zhou, X., Lai, Y., & Liu, R. (2020). A 15-years follow-up of deferasirox in beta-thalassaemia major patients with iron overload. *British Journal of Haematology*, 191, 81–83.
- Westover, J. B., Sweeten, T. L., Benson, M., Bray-Ward, P., & Torres, A. R. (2011). Immune Dysfunction in Autism Spectrum Disorder. *Autism - A Neurodevelopmental Journey from Genes to Behaviour*, 343–368.
- Woods, J. A., Wilund, K. R., Martin, S. A., & Kistler, B. M. (2012). Exercise, inflammation and aging. *Aging and Disease*, 3(1), 130–140.
- Xiao, J., Li, J., Cai, L., Chakrabarti, S., & Li, X. (2014). Cytokines and Diabetes Research. *Diabetes Research*, 2014, 1–2.
- Yaish, H. M. (2019). Pediatric Thalassemia. *Medscape*, 1–22.
- Younis, A., Hawkins, K., Mahini, H., Butler, W., & Garelnabi, M. (2014). Serum tumor necrosis factor- α , interleukin-6, monocyte chemotactic protein-1 and paraoxonase-1 profiles in women with endometriosis, pcso, or unexplained infertility. *Journal of Assisted Reproduction and Genetics*, 31(11), 1445–1451.